

Title (en)  
ELEVATOR SYSTEM WITHOUT A MOVING COUNTERWEIGHT

Title (de)  
AUFZUGSSYSTEM OHNE EIN SICH BEWEGENDES GEGENGEWICHT

Title (fr)  
SYSTEME D'ASCENSEUR SANS CONTREPOIDS DE DEPLACEMENT

Publication  
**EP 1631518 A1 20060308 (EN)**

Application  
**EP 03724134 A 20030422**

Priority  
US 0312266 W 20030422

Abstract (en)  
[origin: WO2004094287A2] An elevator system (20) includes a cab (22) supported for movement within a hoistway. A plurality of cab-supported sheaves (36, 42) moves with the cab through the hoistway. A first hoistway sheave (38) is located near a first end of the hoistway, and a second hoistway sheave (40) is located near a second end of the hoistway. A load bearing member (30) is provided, which (i) extends from near the first end of the hoistway toward the cab, where the load bearing member is redirected by one of the plurality of cab-supported sheaves toward the first end of the hoistway, (ii) at least partially wraps around each of the first hoistway sheave and the second hoistway sheave, and (iii) extends from near the second end of the hoistway toward the cab, where the load bearing member is redirected by another of the plurality of cab-supported sheaves toward the second end of the hoistway. A tension device (44) maintains tension in the load bearing member.

IPC 1-7  
**B66B 11/08**; **B66B 7/10**

IPC 8 full level  
**B66B 7/10** (2006.01); **B66B 11/08** (2006.01)

IPC 8 main group level  
**B66B** (2006.01)

CPC (source: EP)  
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